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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO | |
|---|---------------|----------------------|-------------------------|-------------------------|--|
| 09/626,535 | 07/27/2000 | Donald F. Hooper | 42390. P7876X | 1214 | |
| 75 | 90 09/30/2003 | | | | |
| Blakely Sokoloff Taylor & Zafman LLP | | | EXAMINER | | |
| 12400 Wilshire Boulevard Seventh Floor Los Angeles, CA 90025-1026 | | | ENG, DAVID Y | | |
| | | | ART UNIT | PAPER NUMBER | |
| | | | 2155 | Li | |
| | | | DATE MAILED: 09/30/2003 | DATE MAILED: 09/30/2003 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| , | Application N . | Applicant(s) | | | | |
|---|--------------------------|--|--|--|--|--|
| | 09/626,535 | HOOPER ET AL. | | | | |
| Office Action Summary | Examin r | Art Unit | | | | |
| | DAVID Y. ENG | 2155 | | | | |
| - The MAILING DATE of this c mmunicati n appears on the cover sheet with the c rrespondence address Period f r Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status | | | | | | |
| 1) Responsive to communication(s) filed on | · | | | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ T | nis action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims | | | | | | |
| 4) Claim(s) 1-17 is/are pending in the applicatio | n. | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1-17</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or election requirement. Application Papers | | | | | | |
| 9)☐ The specification is objected to by the Examiner. | | | | | | |
| 10)⊠ The drawing(s) filed on <u>27 July 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| 11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner. | | | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | | |
| 12) The oath or declaration is objected to by the Examiner. | | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | |
| 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| a) All b) Some * c) None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | | | | | | |
| a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | | |
| Attachment(s) | | | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Informal f | r (PTO-413) Paper No(s) Patent Application (PTO-152) | | | | |

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If applicant desires priority under 35 U.S.C. 120 based upon a previously filed application, specific reference to the earlier filed application must be made in the instant application. For benefit claims under 35 U.S.C. 120, 121 or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of the applications. This should appear as the first sentence of the specification following the title, preferably as a separate paragraph unless it appears in an application data sheet. The status of nonprovisional parent application(s) (whether patented or abandoned) should also be included. If a parent application has become a patent, the expression "now Patent No.

______" should follow the filing date of the parent application. If a parent application has become abandoned, the expression "now abandoned" should follow the filing date of the parent application.

If the application is a utility or plant application filed under 35 U.S.C. 111(a) on or after November 29, 2000, the specific reference must be submitted during the pendency of the application and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior application. If the application is a utility or plant application which entered the national stage from an international application filed on or after November 29, 2000, after compliance with 35 U.S.C. 371, the specific reference must be submitted during the pendency of the application and within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) or sixteen months from the filing date of the prior application. See 37 CFR 1.78(a)(2)(ii) and (a)(5)(ii). This time period is not extendable and a failure to submit the reference required by 35 U.S.C. 119(e) and/or 120, where applicable, within this time period is considered a waiver of any benefit of such prior

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application(s) under 35 U.S.C. 119(e), 120, 121 and 365(c). A priority claim filed after the required time period may be accepted if it is accompanied by a grantable petition to accept an unintentionally delayed claim for priority under 35 U.S.C. 119(e), 120, 121 and 365(c). The petition must be accompanied by (1) the reference required by 35 U.S.C. 120 or 119(e) and 37 CFR 1.78(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.17(t), and (3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(2) or (a)(5) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional. The petition should be addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

The drawings are objected to because the legends are not legible. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

There is no description of Figure 2 in the specification.

Applicants are requested to identify the network, the network data, the first and the second threads, the network processor and its components for scheduling threads in the drawings and the corresponding description in the specification. 37CFR 1.75d1 and 1.83a.

Claims 3-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Scope of claim 3 is not clear. It is not clear why the second and not the first thread retrieves the state information after interrupt. Applicants are requested to identify the disclosure in the specification.

Scope of claim 6 is not clear.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mohamed (USP 6,366,998).

See at least Figure 1, 2 and 8 and the corresponding description in the Mohamed patent.

Mohamed teaches n network processor for processing network data comprising:

a plurality of pipelines (DPUs) for respectively processing a plurality of threads (instructions which control the pipelines) to operate on incoming blocks of data; and a scheduler for scheduling individual threads to the pipelines.

Mohamed did not identify the processor as a network processor. However, one of ordinary skill in the art should recognize that it is a network processor because it processes packets (see lines 23-25 of page 5 of the instant specification for the definition of a network processor) (see packets in the abstract of Mohamed).

With respect to claims 8-14, note that the processor can be operated horizontally and vertically.

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Claims 2-6 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mohamed (USP 6,366,998) in view of Anderson (USP 3,736,566).

Mohamed does not teach saving of state information. However, Anderson teaches saving of state information such that the processor is able to return to the processor state before the processor is interrupted (see lines 47 of column 17 to line 5 of column 18). From the teaching of Anderson, it would have been obvious to a person of ordinary skill in the art to save the processor state such that the processor is able to return to its sate before it is interrupted.

DAVID Y. ENG PRIMARY EXAMINER